Work Orde													Page 1
Item ID: Revision ID:	D3492-043		A	Accept						Setup	Start		
Item Name:	Plug Assembly	,									Stop		
Start Date: Required Date: Reference:	1/6/2011 1/13/2011	Start Qty: 40.00 Req'd Qty: 40.00	1 12 11 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1			Cust Item I Customer:	D:						
Approvals:	Process Plai	n: ///	Date: //-0/-6	Tooling:		Da	ate:	_		Run	Start		
•	QC:		Date:	SPC (Y/N):			ate:				Stop		
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours		Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp
Draw Nbr	Revi	sion Nbr											
D3492	Rev	C											
100 Hardinge		Hardinge CNC LATHE S		0.00					40	ø	)		
Hardinge CNC Lath	e Small	1-Turn as pe Rev:	r Folio FA632 & Dwg D349	11/1/12	_□Folio	t							
110 		QC2- Inspect parts off ma	achine FAI/FAIB	0.00	•				40	J.			
Quality Control		Memo	d	1/1/12			•			•			

120

QC8- Inspect parts - second check

0.00

Memo

H-A 11/01/12

Quality Control

W/O:			WC	RK ORDER CHANG	SES				
DATE	STEP	PRC	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				A				r rod ingi	· · · · · · · · · · · · · · · · · · ·
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:		Date:	
	R	esolution:	Dispositio	n:	QA: N/C CI	osed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCR	)			
DATE	OTED	Description of NC			tion B	Verifica	tion	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sign &   Section C		Chief Eng	QC Inspector
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				·					

#### Work Order ID 65070

Thursday, January 06, 2011 10:38:19 AM



Page 2

Item ID:

D3492-043

Accept

Setup Start

Stop



Revision ID:

Item Name: Plug Assembly

Required Date: 1/13/2011

**Start Date:** 

1/6/2011

**Start Otv: 40.00** 

Req'd Qty: 40.00



Cust Item ID: **Customer:** 

Reference:

Approvals:

Process Plan:

**Operation** 

Description

Chemical Conversion Coat per QSI005 4.1

Date: \_\_\_\_\_

Tooling:

Date:

Date:

Run

Start

Stop



Sequence ID/

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Tool ID

Tool # Plan

Code

Accept Otv

Reject Otv

Insp. Reject Number Stamp

Work Center ID

130

HandFinish

Memo

0.00

0.00

Hand Finishing

140

Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum

Memo

0.00

0.00

(Flat End Only) (ISTART TIME:

TEMPERATURE. □FINISH TIME:

150

**Quality Control** 

QC3- Inspect Part Finish

0.00

0.00

40. BR 11-01-13.

Memo

	•								
W/O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	A:	Date: _	
	R	esolution:	Dispositio	n:	_ QA: N/C CI	osed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Secti			cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sect	tion C	Chief Eng	QC Inspector
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#### Work Order ID 65070

Thursday, January 06, 2011 10:38:19 AM



Page 3

Item ID:

D3492-043

Accept



Setup Start



**Revision ID:** 

Item Name:

Plug Assembly

**Start Date:** 

1/6/2011

**Start Qty: 40.00** 

Required Date: 1/13/2011 Req'd Qty: 40.00



**Cust Item ID: Customer:** 

Reference:

Approvals:

Tooling: Date:

Date:

Run

Start Stop

Stop

Date:

SPC (Y/N):

Date:

Tool ID

Tool # Plan

Accept Qty Code

Reject Reject Qty

Insp. Number Stamp

Sequence ID/ Work Center ID

160

Packaging

Packaging

**Operation** Description

Identify as per dwg & Stock Location:

Memo

Set Up/ **Run Hours** 

0.00

0.00

170

OC Quality Control QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

Dart Ae	rospace	e Ltd							
W/O:			W	ORK ORDER CHANGES					
DATE	STEP	PRO	ROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
<del></del>									
Part No	:	PAR #:	Fault Cate	egory:N	CR: Yes	No <b>DQ</b>	A:	_ Date: _	
	R	esolution:	Dispositi	on: Q	A: N/C CI	osed:		Date: _	
NCR:		V	VORK ORE	DER NON-CONFORMANC	E (NCR	)			
DATE	0750	Description of NC		Corrective Action Section B		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	_	on C	Chief Eng	QC Inspector
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			:						

#### **Picklist Print**

Thursday, January 06, 2011 10:38:23 AM

Work Order ID: 65070

Parent Item:

D3492-043

Parent Item Name: Plug Assembly



**Start Date: 1/6/2011** 

Required Date: 1/13/2011

**Start Qty: 40.00** 

Required Qty: 40.00

Comments:

IPP Rev: A 06.03.21 New Issue JLM

IPP Rev:B 06-08-28 As per Rev B JLM IPP Rev:C 07-12-06 Rev C dwg DD verified by:EC

IPP Rev:D 08-05-07 add note to count qty DD verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6R0.750		Purchased	No			100	f	50.4648	0.0625	2.631579		-1	
										12	//	11/11	)

6061-T6 Round Bar .750"

<b>Location</b>	Loc Oty	Loc Code	
MAT	50.448		
115469	0.0027		
115869	2.4453		
116406	48		2.5
MAT012	0.016842105		
112442	0.01684211		

Page 1

	Johann								
W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRC	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				<u></u>					
					NOD V	N- DO		D-4	
Part No		PAR #:							
		esolution:						Date: _	
NCR:				R NON-CONFORMA	INCE (NCI	ገ) —			· <del></del>
DATE	STEP	Description of NC		Corrective Action Section	on B Sign a		ication	Approval	Approval
DAIL	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Date		tion C	Chief Eng	QC Inspector
[									

DART AEROSPACE LTD	Work Order:	45070
Description: Plug	Part Number:	D3492-3
Inspection Dwg: D3492 Rev: C		Page 1 of 1

### FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype	•
---	---------------	-----------	---

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.750	+/-0.010	0.100			Velh	9-12
Ø0.582	+0.008/-0.001	0,582	/ ,		7	1
0.045	+0.000/-0.002	.0442				\
0.060	+/-0.005	1018			/	
0.060	+/-0.005	.059	/.			
0.500	+/-0.010	.498				
0.090	+0.000/-0.002	.0899				
					,	1
*						

Measured by:	1/2	Audited by:	<b>b</b> . A	Prototype Approval:	N/A
Date:	11/1/12	Date:	11/01/12	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	06.07.07	New Issue P/O D3492-043	KJ/JLM	
В	06.10.16	Ø0.750 was Ø0.625	KJ/JLM ,	
С	08.09.04	Tolerance revised for Ø0.750	KJ/DD ox	77

W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No:		PAR #:	Fault Cate	gory:	NCR: Yes I				
		esolution:							
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (NCR	)			
DATE	STEP	Description of NC	4	ion B		cation	Approval	Approval	
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date	Secti	ion C	Chief Eng	QC Inspector
j								i i	
					·				

D3492-XX PLUG (SEE TABLE) -NAS1611 PLUG (SEE TABLE)

#### D3492-XXX PLUG PARTS LIST

QTY -041	QTY -043	QTY -045	QTY -047	QTY -049	QTY -051	QTY -053	PART NUMBER	DESCRIPTION
Х							D3492-041	PLUG ASSEMBLY
	X	L					D3492-043	PLUG ASSEMBLY
		_ X					D3492-045	PLUG ASSEMBLY
			X				D3492-047	PLUG ASSEMBLY
				X			D3492-049	PLUG ASSEMBLY
					Х		D3492-051	PLUG ASSEMBLY
			- 1	,		Х	D3492-053	PLUG ASSEMBLY
<del></del>							D0400 4	
	1						D3492-1	PLUG
	1						D3492-3	PLUG
		11					D3492-5	PLUG
			_1_				D3492-7	PLUG
				1			D3492-9	PLUG
					1		D3492-11	PLUG
						1	D3492-13	PLUG
	_						11001011 005	
		بليا					NAS1611-005	O-RING
			1				NAS1611-007	O-RING
_ 1							NAS1611-010	O-RING
						1	NAS1611-012	O-RING
	1						NAS1611-013	O-RING
					1_		NAS1611-015	O-RING
				1 .			NAS1611-016	O-RING

NOTES: 1) O-RING: POSSIBLE SUPPLIER P/N: NAS1611-XXX OR PARKER 2-XXX

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER
NO. 45070

PS/11-01-4

DEO ATTACHED

DESIGN		gy.	DART AEROS	PACE L			
REV.	DESCRIPTION	ON		BY	DATE		
Α	NEW ISSUE			PH	06.01.04		
В	ADD -047; U	PEATE DIM A F	OR -045	PH	PH 06.01.04		
С	ADD -049/-0	51/-053, CHANG	GE DRAWING FORMAT	PH	07.10.05		

HAWKESBURY, ONTARIO, CANADA DRAWING NO. CHECKED REV. C D3492 MFG. APPR SHEET 1 OF 2 APPROVED TITLE SCALE PLUG DE APPR. DATE COPYRIGHT @ 2007 BY DART AEROSPACE LTD 07.10.05

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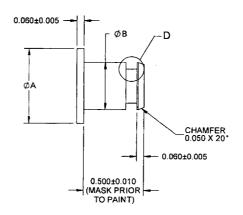
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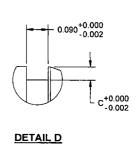
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W/O:			WO	RK ORDER CHAN	GES							
DATE	STEP	PROCEDURE CHANGE					Date Q	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	Part No:	PAR #:	Fault Cate	gory:	NCR:	: Yes N	Yes No DQA: Date:					
		esolution:										
NCR:	<del></del>		WORK ORDI	ER NON-CONFORM	MANCE	(NCR)						
DATE		Description of NC	Corrective Action Section B				Verification	n Approval	Approval			
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	<b>)</b>	Sign & Date	Section C	n Approval Chief Eng	QC Inspector			
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-POWDER COAT THESE FACES ONLY PER NOTE 2



**D3492-XX PLUG** 



No 45070

#### **D3492-XX PLUG MACHINING DETAILS**

	P/N	Α	В	С	MATERIAL SPEC	1
	D3492-1	0.625	0.394	0.055	M6061T6R0.625	1
1	Ó3492-3	0.750	0.582	0.045	M6061T6R0.750	1,
	D3492-5	0.375	0.188	0.045	M6061T6R0.375	1
ı	D3492-7	0.500	0.270	0.045	M6061T6R0.500	1
ı	D3492-9	0.938	0.750	0.045	M6061T6R1.000	1
	D3492-11	0.850	0.664	0.045	M6061T6R0.875	1
ı	D3492-13	0.750	0.520	0.045	M6061T6R0.750	

NOTES:
1) MATERIAL: ALUMINUM 5052-H32 OR 6061-T6 OR 1100-0 PER QQ-A-225/7 (5052) OR QQ-A-225/8 (6061) OR QQ-A-200/8 (6061) OR QQ-A-225/1 (1100) (REF. DART MATERIAL SPEC M6061T6R0.000)
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT WHITE GLOSS (4.3.5.1) PER DART QSI 005 4.3 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED 4) UNITS: INCHES UNLESS OTHERWISE NOTED 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX 6) IDENTIFICATION: N/A 7) WEIGHT: N/A

DEO ATTACHED

DESIGN P4		DART AEROSPACE LTD						
DRAWN	PK	HAWKESBURY, ON						
CHECKED	1	DRAWING NO.	REV. C					
MFG. APPR.	1	D3492	SHEET 2 OF 2					
APPROVED	"Tind	TITLE	SCALE					
DE APPR.	all!	PLUG	4:1					
DATE 07.	10.05	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT OF PRIVATE AND COMPORTHAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR MY PURPOSE OR COMPED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WINTERN MERICASION PRODUCT PART AND ANT ARROPS IT IT						

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W/O:			WO	<b>RK ORDER CHANG</b>	ES						
DATE	STEP	PRO	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Cate	jory:	_ NCR: `	res N	lo <b>DQ</b>	A:			
Resolution:			Disposition	1:	_ QA: N/	C Clo	sed:		Date: _		
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DATE	CTED	Description of NC		on B		Verific	cation	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Section C		Chief Eng	QC Inspector	
l			1				1				

DRAWING NO. D3492	TITLE PLUG			REV. C		AEROSPACE L NEERING ORDI		D.E.O. D3492			EET NO. ET 1 OF 1	SCALE NTS
DRAWN AJ	JS	CHECKED		4	MFG. APP			APPROVED	<u> </u>	DE APPR		NIO
DATE 08.1	1.05	DATE	08 11	.05	DATE	08.11.05		DATE	08/11/05		08/4/05	
SHEET 2 MOE	)IFY -13 PLU	JG AS SHOWN	l: P/N		2-XX PLUG	G MACHINING  C MA		TAILS  AL SPEC		Wo Ce	507U	
			D3492-	2-13 0.750	0.510	0.045 M6061T6R0	).750			′,		,
WAS:				D3492	-XX PLU	G MACHINING	DE1	ΓAILS				
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W/O:			WO	RK ORDER CHANGI	ES					
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D.475		Description of NC Section A	\	Corrective Action Section B			Verif	ication	Approval	Approval
DATE	STEP		Initial Chief Eng	Action Description Chief Eng		Sign 8 Date	gn& ∣ <sub>Section C</sub>		Chief Eng	QC Inspector
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					-					